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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,065	07/10/2006	Yassine Mami	P1941US	3668
	7590 09/26/200 DDLE & REATH LLP	EXAMINER		
ATTN: PATEN	T DOCKET DEPT.	OPSASNICK, MICHAEL N		
CHICAGO, IL	ER DRIVE, SUITE 370 60606	JU .	ART UNIT	PAPER NUMBER
			2626	
			MAIL DATE	DELIVERY MODE
			09/26/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	Application No. Applicant(s)			
		10/563,06	65	MAMI ET AL.		
		Examiner		Art Unit		
			N. OPSASNICK	2626		
Period fo	- The MAILING DATE of this communicati r Reply	on appears on the	e cover sheet with the	correspondence a	ddress	
WHIC - Exten after 9 - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MAILI sions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communica period for reply is specified above, the maximum statutor to to reply within the set or extended period for reply will, be sply received by the Office later than three months after the distance part of the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no evition. y period will apply and w by statute, cause the app	HIS COMMUNICATIO ent, however, may a reply be to all expire SIX (6) MONTHS fror lication to become ABANDON	N. mely filed n the mailing date of this ED (35 U.S.C. § 133).	·	
Status						
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed or This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice u	This action is nallowance except	for formal matters, pr		e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠ 8)□ Applicatio	Claim(s) <u>1-12</u> is/are pending in the application of the above claim(s) is/are we claim(s) is/are we claim(s) is/are allowed. Claim(s) <u>1,2 and 7-12</u> is/are rejected. Claim(s) <u>3-6</u> is/are objected to. Claim(s) are subject to restriction on Papers The specification is objected to by the Ex	rithdrawn from co				
10) 🖾 -	The specification is objected to by the Ex The drawing(s) filed on 23 May 2008 is/a Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	re: a)⊠ accepte to the drawing(s) b correction is requir	be held in abeyance. Seed if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 C	, ,	
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9 nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	948)	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date		

Application/Control Number:

10/563,065 Art Unit: 2626 Page 2

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 3-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 2. The following is a statement of reasons for the indication of allowable subject matter:

As per dependent claim 3, the claim features pertaining to a set of E reference speakers is not transformed in an eigenspace before any comparison but is used with all the parameters of the GMM model, is not explicitly taught by the prior art of record.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

10/563,065 Art Unit: 26

Art Unit: 2626

4. Claims 1,2,7-12 are rejected under 35 U.S.C. 102(e) as being anticipated by <u>Kuhn et al</u> (6697778).

As per claims 1,7,12, <u>Kuhn et al (6697778)</u> teaches analyzing vocal signals of a speaker using probability densities between reference signals and an input signal and analyzing the probability densities (col. 2 lines 1-10; col. 2 lines 41-55; col. 4 line 34 – col. 5 line 10, wherein during the training aspect of the models, the reference data does not contain the speaker - fig. 4, subblocks 44-56).

As per claims 2, <u>Kuhn et al (6697778)</u> teaches Gaussian mixtures with weighting coefficients of dimension D and E reference dimension (Figs. 1,3,5, and col. 9 line 35 – col. 10 line 23).

As per claims 8-11, <u>Kuhn et al (6697778)</u> teaches the analysis of audio information over the telephone (col. 1 lines 18-25), along with speaker identification/verification (col. 1 lines 33-42).

Response to Arguments

5. Applicant's arguments filed 5/23/08 have been fully considered but they are not persuasive. Applicants amendments to the specification and the claims have overcome the objections to the title, drawings, and 35 U.S.C. 101 rejections. As per applicants arguments

against the Kuhn reference, in particular, the amended claim language pertaining to an independent speaker set, examiner disagrees and argues that 1) applicants specification uses the reference set for speaker identification (and hence needs to have the user as part of the data set), and 2), the Kuhn reference teaches speaker sets that contain references that are not the speaker (the training phase for a new user - the datasets do not contain the speaker - Fig. 4, subblocks 44-56). However, examiner notes that the Kuhn reference does not explicitly the same claimed technique as presented in claims 3-6.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10/563,065

Art Unit: 2626

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Richemond Dorvil, can be reached at (571)272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael N. Opsasnick/ Primary Examiner, Art Unit 2626 9/21/08